

# Capacitance Point level detection Liquicap FTI51

For liquids that are highly viscous and tend to form build-up



More information and current pricing:

[www.us.endress.com/FTI51](http://www.us.endress.com/FTI51)

## Benefits:

- Cost savings thanks to easy and fast commissioning as calibration takes place at the press of a button
- Reliable and safe measurement due to active build-up compensation
- Reliable and universal application thanks to wide range of certificates and approvals
- Short reaction time
- Material in contact with the process made of corrosion-resistant and FDA-listed materials
- Two-stage overvoltage protection
- No need for recalibration after replacing electronics

## Specs at a glance

- **Process temperature** -80 °C ... +200 °C (-112 °F ... +392 °F)
- **Process pressure absolute / max. overpressure limit** Vacuum ... 100 bar (Vacuum ... 1450 psi)

**Field of application:** Liquicap FTI51 is a rod probe for point level detection of liquids that are highly viscous and tend to form build-up. Also used for detection of interface and foam of conductive liquids. Due to its active build-up compensation FTI51 offers maximum reliability and is suited for a wide range of applications thanks to international certificates. The parts in contact with the process are made of corrosion-resistant and FDA-listed materials - this guarantees a high safety standard.

## Features and specifications

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**Point Level / Liquids****Measuring principle**Capacitive Liquid

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**Characteristic / Application**Capacitive rod probe

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**Specialities**

Interface detection

Foam detection

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**Ambient temperature**

-50 °C ... +70 °C

(-58 °F ... +158 °F)

With separate housing:

-50 °C ... +120 °C

(-58 °F ... +248°F)

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**Process temperature**

-80 °C ... +200 °C

(-112 °F ... +392 °F)

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**Process pressure absolute / max. overpressure limit**

Vacuum ... 100 bar

(Vacuum ... 1450 psi)

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**Main wetted parts**

Insulation material: PTFE, PFA

316L

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**Process connection**

G 1/2 ... 1 1/2

NPT 1/2 ... 1 1/2

Flange from DN25.../ASME 1".../JIS 10K...

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**Point Level / Liquids****Process connection hygienic**

Tri-Clamp ISO2852 gap free plated

Dairy coupling

Flush mount

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**Sensor length**

Total length of probe: max 6 m (20 ft)

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**Communication**

2-wire 19-253 VAC

3-wire

PFM

Relay DPDT

DC-PNP

8/16 mA

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**Certificates / Approvals**ATEX, FM, CSA, CSA C/US, IEC Ex, TIIS, INMETRO, NEPSI,  
EAC

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**Safety approvals**

Overfill prevention WHG

SIL

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**Design approvals**

EN 10204-3.1

NACE MR0175

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**Marine approval**

GL/ ABS/ DNV

## Point Level / Liquids

### Options

Inactive length

Fully isolated active build-up compensation

Ground tube

Separate housing

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### Components

Transmitter

PFM: FTC325, FTC625, FTC470Z, FTC471Z

3-wire:

FTC325

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### Application limits

Notice the pressure and temperature derating.

Notice for non conductive medium the DK.

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